



Fact Sheet

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Pavement Model Generation Interface

Purpose: To automate the creation of large pavement models.

Background: The Pavement Model Generation Interface was developed to speed the development of large pavement models. This will increase the efficiency with which parametric studies can be done, as a series of models examining the effect of a single parameter (say top layer thickness) can be quickly generated and run.

Facts: The model interface runs within MSC/PATRAN, and generates models suitable for running in ABAQUS. A substantial number of modeling parameters are available to be specified. These include the choices of different planes for loading, including the ability to generate custom plane configurations, different locations on the pavement, the size of the pavement, the makeup of the pavement layers, including contact between layers, boundary conditions and meshing parameters. Loads can be set up as static loads or as a single rolling load.

Point of Contact: For more information regarding the Pavement Model Generation Interface, contact Mr. Donald M. Smith or e-mail at smithd@wes.army.mil. General information on WES is available on the web site at <http://www.wes.army.mil>.

